

Global Magnet Wire for Wind Turbine Generators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnet Wire for Wind Turbine Generators market size is expected to reach \$ 5681 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Magnet wire for wind turbines is a high-performance insulated conductor specifically designed for the stator and rotor windings and related electrical systems of wind turbines, primarily responsible for electrical energy conversion and electromagnetic energy transmission. This type of magnet wire typically uses high-purity copper or aluminum conductors and is equipped with an insulation system that is resistant to high temperatures, high insulation strength, corona discharge, vibration, and environmental aging, to meet the requirements of long-term, high-load operation of wind power generation equipment.

The upstream of the industry chain mainly includes suppliers of conductor materials such as high-purity copper rods, oxygen-free copper, copper alloys, and aluminum, as well as suppliers of insulation materials such as polyesterimide (PEI), polyamide-imide (PAI), polyimide (PI), glass fiber, mica tape, and insulating resins. It also involves manufacturers of wire drawing equipment, enameling equipment, wrapping equipment, and testing equipment. The midstream consists of manufacturers of electromagnetic wire for wind turbines, producing enameled round wire, electromagnetic flat wire, glass fiber-wrapped wire, film-wrapped wire, and transposed conductors through processes such as wire drawing, annealing, enameling, wrapping, and composite insulation treatment to meet the long-term high-load operation requirements of large wind turbines. The downstream mainly uses permanent magnet direct-drive wind turbines (PMSG), doubly-fed induction generators (DFIG), high-speed synchronous generators, and supporting converter systems, ultimately serving onshore wind farms, offshore wind

farms, and distributed wind power projects.

In 2025, global sales of electromagnetic wire for wind turbines will reach 230,000 tons, with a production capacity of approximately 350,000 tons, an average selling price of US\$14.6 per kilogram, and an average gross profit margin of 15%-25%.

Global carbon neutrality goals and energy transition strategies are the core drivers of industry development. China's 14th Five-Year Plan for Renewable Energy, the European Green Deal, and the US Clean Energy Investment Policy all continue to support the expansion of the wind power industry. In recent years, offshore wind power has become a key global investment area, with many countries launching offshore wind power development plans. Meanwhile, the trend towards larger wind turbines and lower cost per kilowatt-hour is driving upgrades in generator technology, leading to a sustained increase in demand for high-performance magnet wire. The localization trend in the wind power industry chain is also prompting magnet wire suppliers to accelerate their global expansion.

This report studies the global Magnet Wire for Wind Turbine Generators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnet Wire for Wind Turbine Generators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnet Wire for Wind Turbine Generators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnet Wire for Wind Turbine Generators total production and demand, 2021-2032, (Kilotons)

Global Magnet Wire for Wind Turbine Generators total production value, 2021-2032, (USD Million)

Global Magnet Wire for Wind Turbine Generators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Magnet Wire for Wind Turbine Generators consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Magnet Wire for Wind Turbine Generators domestic production, consumption, key domestic manufacturers and share

Global Magnet Wire for Wind Turbine Generators production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Magnet Wire for Wind Turbine Generators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Magnet Wire for Wind Turbine Generators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Magnet Wire for Wind Turbine Generators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Superior Essex, REA Magnet Wire, Elektrisola, Sumitomo Electric, Furukawa Electric, Proterial, LS Cable & System, IRCE, De Angeli Prodotti, Sam Dong, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnet Wire for Wind Turbine Generators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnet Wire for Wind Turbine Generators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnet Wire for Wind Turbine Generators Market, Segmentation by Type:

Copper Core

Aluminum Core

Global Magnet Wire for Wind Turbine Generators Market, Segmentation by Cross-Sectional Shape:

Circular Wire

Flat Wire

Global Magnet Wire for Wind Turbine Generators Market, Segmentation by Heat Resistance Rating:

Class 155

Class 200

Class 220

Global Magnet Wire for Wind Turbine Generators Market, Segmentation by Application:

Offshore Wind Turbines

Onshore Wind Turbines

Wind Turbine Accessories

Others

Companies Profiled:

Superior Essex

REA Magnet Wire

Elektrisola

Sumitomo Electric

Furukawa Electric

Proterial

LS Cable & System

IRCE

De Angeli Prodotti

Sam Dong

Prysmian Group

Nexans

Jingda Shares

Jinbei Electric

Jintian Shares

Great Wall Technology

Key Questions Answered:

1. How big is the global Magnet Wire for Wind Turbine Generators market?
2. What is the demand of the global Magnet Wire for Wind Turbine Generators market?
3. What is the year over year growth of the global Magnet Wire for Wind Turbine Generators market?
4. What is the production and production value of the global Magnet Wire for Wind Turbine Generators market?
5. Who are the key producers in the global Magnet Wire for Wind Turbine Generators market?
6. What are the growth factors driving the market demand?

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